Index of Claims



Application/Control No.

10/038,722

Examiner

William W. Moore

Applicant(s)/Patent under Reexamination

LEY ET AL.

Art Unit

1656

| 1 | Rejected | _ | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |
|---|----------|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  | + | Restricted                     | ı | Interference | o | Objected |

| Cla      | aim Date |              |              |          |                | ]::::           | Cla      | Date     |          |            |          |                 |          |          | CI              | aim      |          | Date          |          |          |                         |      |            |          |                 |                 |          |          |                 |                                     |          |           |          |
|----------|----------|--------------|--------------|----------|----------------|-----------------|----------|----------|----------|------------|----------|-----------------|----------|----------|-----------------|----------|----------|---------------|----------|----------|-------------------------|------|------------|----------|-----------------|-----------------|----------|----------|-----------------|-------------------------------------|----------|-----------|----------|
|          | <u></u>  |              |              |          |                |                 |          |          |          |            |          |                 | 707      |          |                 |          |          |               |          |          |                         |      |            | <u>~</u> |                 |                 |          |          |                 |                                     |          |           |          |
| Final    | Original | 7/11/05      |              | ı        |                |                 |          | ĺ        |          |            |          | Final           | Original | 7/11/05  |                 |          |          | i             |          |          |                         |      | Final      | Original |                 |                 |          |          |                 |                                     |          |           |          |
| iĒ       | 1 2      | 15           |              | i        |                |                 |          |          | -        |            |          | ίĒ              | Ę        | 71       | 1               |          | ł        |               |          |          |                         |      | i <u> </u> | Ĕ        |                 |                 |          |          | ١.              | İ                                   |          |           |          |
| <u> </u> |          | Ľ            |              |          | <u> </u>       |                 |          | L        | 1        | <u> </u>   | <u> </u> |                 |          | Ļ        | <u> </u>        |          | $\Box$   | _             |          | $\perp$  |                         |      |            |          | <u> </u>        |                 |          | _        | _               | L                                   | Ш        | Ш         | Ш        |
|          | 1        | ┖            | _            | L        | L              | L_              | L.       | ┖        | 1        | <u> </u>   | 1        | 9               | 51       | =        |                 |          |          |               | _        |          | $\perp$                 |      |            | 101      | <u>L</u>        |                 |          | ╙        | ┖               | <u> </u>                            | Ш        |           | Ш        |
|          | 2        | ┖            | Ļ            | L        | 上              | ╙               | _        | _        | _        | 1          |          | 10              | 52       | =        | L_              | Ш        | _        | $\dashv$      | _        |          |                         |      |            | 102      | Ц.              | Ш               | <u> </u> |          | _               |                                     |          | Ш         | Ш        |
|          | 3        | _            | L            | _        | <u> </u>       | <u> </u>        | L        | 上        | 4        | ↓_         | J        |                 | 53       | L        | Ш               | Ш        |          | $\dashv$      | _        |          | 4                       |      |            | 103      |                 |                 | Ŀ        |          | <u> </u>        |                                     |          | Ш         | Ш        |
|          | 4        | L            | _            | _        |                | _               |          | L        | 1.       | <u> </u>   |          |                 | 54       | _        |                 |          |          | _             | _        |          | Ш                       |      |            | 104      | _               | Ш               | L.       |          | <u> </u>        |                                     | Ш        | Ш         | Ш        |
|          | 5        | <u> </u>     | <u> </u>     | <u> </u> | <u> </u>       | _               | Ľ        | ᄂ        | 4        | ↓          |          |                 | 55       | L        | L_              |          | _        | _             | 4        |          | $\bot$                  |      |            | 105      | _               |                 | <u> </u> |          | L               |                                     |          | Ш         | Ш        |
| <u> </u> | 6        | ┞-           | <u> </u>     | <u> </u> | ┡              | ┞               | _        | ┡        | _        | ↓_         |          |                 | 56       | L        | Щ               | $\Box$   | _        | _             | $\perp$  | 4        | $\bot$                  |      | ļ          | 106      | _               | Ш               |          |          |                 | lacksquare                          |          | Ш         | Ш        |
|          | 7        | L            | _            |          | ┡              | _               | _        | ╄        | +        | ┡          |          |                 | 57       | ┡        |                 |          | _        | _             | +        |          | 1                       |      |            | 107      | Ш               |                 | L.       | _        | _               | L                                   | Щ        | Ш         | Н        |
|          | 8        | _            | _            | <u> </u> | ┡              | _               | _        | ╄        | ╄        | ↓_         |          | L               | 58       | L        |                 |          | 4        | _             | 4        | _        |                         |      |            | 108      | _               | Ш               |          | <u> </u> | <u> </u>        |                                     | Ш        | Ш         | Ш        |
|          | 9        | _            | ┡            | <u> </u> | <u> </u>       | ┡               | _        | ₩        | ┿        | ₩          |          |                 | 59       | ┡        | Н               | _        | _        | 4             | -        |          | +                       |      |            | 109      |                 |                 | <u> </u> | _        | <u> </u>        |                                     | $\Box$   | $\square$ | Н        |
|          | 10       | _            | _            |          |                |                 | _        | <u> </u> |          | ╄          |          |                 | 60       | _        |                 |          | ,        | _             | 4        | 4        | $\perp$                 |      | ļ          | 110      |                 |                 | _        | <u> </u> |                 |                                     |          | $\dashv$  | Ы        |
|          | 11       | -            | <u> </u>     | ╙        | <u> </u>       | ↓_              | Ь        | ╄        | 4        | ↓_         |          |                 | 61       | <u> </u> |                 |          |          | _             |          | 4        | $\perp$                 |      |            | 111      | Щ               | Ш               |          | <u> </u> | _               | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | $\square$ | Н        |
|          | 12       | <u> </u>     | <u> </u>     | _        | 1              | ـ               | ⊢        | $\perp$  | +        | <b>L</b>   |          |                 | 62       | ļ        | Щ               |          | _        | -             | $\dashv$ | +        | +                       |      |            | 112      |                 | -               | L.       | <u> </u> | _               | L.                                  |          | Щ         | Щ        |
|          | 13       | ┞            | <u> </u>     | $\vdash$ | $\vdash$       | $\vdash$        | <u> </u> | ┡        | $\bot$   | ╙          | 4        |                 | 63       | $\vdash$ | $\sqcup$        |          | _        | _             | _        | -        | 4                       |      |            | 113      |                 | _               | L-       | ļ        | <u> </u>        |                                     |          | Щ,        | Ш        |
|          | 14       | <u> </u>     | L.           | <u> </u> | _              | <u> </u>        | $\vdash$ | L        | $\perp$  | $\vdash$   |          | ļ               | 64       | <u> </u> | Ш               |          | _        | _             | _        |          | $\downarrow \downarrow$ |      | <u> </u>   | 114      | Щ               | Щ               | Щ        | <u> </u> | <u> </u>        | Щ                                   | Щ        |           | ᅴ        |
| <u> </u> | 15       | ┡            | L            | <u> </u> | lacksquare     | <u> </u>        | _        | ↓_       | _        | _          |          |                 | 65       | <u> </u> |                 |          | _        | _             | 4        | 4        | $\perp \perp$           |      | ļ          | 115      |                 | Щ               |          | <u> </u> |                 |                                     |          |           | $\dashv$ |
|          | 16       | _            | _            | <u> </u> | <u> </u>       | <u> </u>        | _        | ↓_       | _        | ┞          |          |                 | 66       | <u> </u> |                 |          | _        | 4             | _        |          | $\sqcup$                |      |            | 116      |                 |                 |          | L.       |                 |                                     |          |           | $\dashv$ |
|          | 17       | L            | <u> </u>     | _        | <u> </u>       | L               | L        | _        | 1        | ╙          |          |                 | 67       | _        | Ш               | _        | _        | 4             | _        | _        | Ш                       |      |            | 117      |                 | Щ               |          |          |                 | Ш                                   |          | $\Box$    | $\Box$   |
|          | 18       | <u> </u>     | _            | _        | _              | L               |          | L        | 4_       | _          | l        | Ш               | 68       |          | Ш               |          | _        | 4             | _        | _        | Ш                       |      |            | 118      |                 |                 |          |          | <u> </u>        |                                     |          | $\dashv$  | $\dashv$ |
|          | 19       |              | <u> </u>     |          | <u> </u>       | _               | ┕        | ┖        | ↓_       | <u> </u>   | liiii    | L               | 69       | _        | Ш               | _        | _        | _             |          |          | Ш                       |      |            | 119      | Ш               |                 |          |          | L               |                                     |          |           | ᆜ        |
|          | 20       | <u> </u>     | _            | L        | ļ              |                 | _        | _        | ╽        | L.         |          | $\square$       | 70       | ᆫ        | Ш               |          | _        | _             | _        | _        | $\sqcup$                |      |            | 120      |                 |                 |          | _        |                 |                                     |          |           | _        |
|          | 21       | <u> </u>     | _            |          | <u> </u>       | _               | <u> </u> | _        | 1_       | <u> </u>   | Į        |                 | 71       | L        | Щ               | 4        | 4        | _             | _        | 4        | $\bot$                  |      |            | 121      | Ш               |                 |          |          |                 |                                     |          |           | _        |
|          | 22       | _            | _            | ldash    | <u> </u>       |                 | _        | _        | ↓_       | ┡          |          |                 | 72       | _        | Ш               | _        | _        | _             | $\bot$   |          | $\perp$                 |      |            | 122      |                 |                 |          |          |                 |                                     |          | _         |          |
|          | 23       | _            |              | L        | Ш              | <u> </u>        |          | _        | $\bot$   | ↓          |          |                 | 73       | _        | $\sqcup$        | 4        | _        | _             | 4        |          | $\sqcup$                |      |            | 123      |                 |                 |          |          | L_              |                                     |          | _         | _        |
|          | 24       | _            | L            | <u> </u> | L_             |                 | <u> </u> | _        | <u> </u> | <u> </u>   |          | Щ               | 74       | _        | Ш               | _        |          | _             | _        |          | $\bot \bot$             |      |            | 124      |                 |                 |          |          | $oxed{oxed}$    |                                     |          | $\dashv$  | _        |
|          | 25       | _            | <u> </u>     | <u> </u> | _              | L               | ┞        | ╙        |          | L          |          | ļ               | 75       | _        | Ш               |          |          |               | 4        |          | $\sqcup$                |      |            | 125      | Ш               | Щ               |          |          | <u> </u>        |                                     |          |           | _        |
| ļ        | 26       | _            |              | _        | L              | _               | <u> </u> | ┡        | 4_       | ╙          |          | $\sqcup$        | 76       |          | Щ               | _        | _        | _             | 4        | <b>-</b> | $\perp \perp \mid$      |      |            | 126      | Щ               |                 |          |          | _               |                                     |          |           | _        |
|          | 27       | <u> </u>     |              |          |                | Ш               | L        | L        | ļ        | L_         |          | igwdow          | 77       | <u> </u> |                 |          | _        | $\rightarrow$ | $\perp$  | _        | Ш                       |      |            | 127      | Щ               | $\Box$          | Щ        |          |                 |                                     |          |           | _        |
|          | 28       | _            | _            |          | L              | _               | _        | _        | _        | _          |          |                 | 78       | _        | Ш               |          | 4        | _             | 4        |          | Ш                       |      |            | 128      |                 | Ш               |          | _        | _               |                                     | _        | _         | _        |
|          | 29       | _            |              | _        | L_             |                 |          | <b>Ļ</b> | _        |            |          |                 | 79       |          | Ш               |          | 4        |               | 4.       | -        | Ш                       |      |            | 129      |                 |                 |          |          |                 |                                     | _        | _         | _        |
|          | 30       | _            |              |          | _              |                 |          | <u> </u> | 4        |            | l        |                 | 80       | _        | Ш               | _        | 4        | $\dashv$      | _        | $\bot$   | Ш                       |      |            | 130      |                 |                 |          |          |                 |                                     | _        | _         | _        |
|          | 31       | _            |              |          | <u> </u>       |                 | _        | _        | _        | _          |          |                 | 81       |          |                 | _        | _        | _             | 4        | $\bot$   | Ш                       |      |            | 131      |                 |                 |          |          |                 |                                     |          |           | _        |
|          | 32       | <u> </u>     | <u> </u>     |          | $\vdash$       | Ш               | <u> </u> | _        | -        | _          |          |                 | 82       | <u> </u> | Ш               | $\dashv$ | _        | _             | $\bot$   |          | $\sqcup$                |      |            | 132      |                 | $\dashv$        | _        |          |                 |                                     | _        | _         | _        |
|          | 33       | $\vdash$     | <u> </u>     | _        | <u> </u>       | Ш               | <u> </u> | <u> </u> | ┼        | <b> </b>   |          | $\vdash \vdash$ | 83       | $\vdash$ | $\vdash \vdash$ | _        |          | _             | _        | +        | $\sqcup$                |      |            | 133      | Щ               | $\dashv$        | $\Box$   |          | Щ               |                                     |          | <b>-</b>  | _        |
|          | 34       | <del> </del> | <u> </u>     |          | $\vdash$       | $\vdash$        | <b> </b> | -        | +        | _          |          |                 | 84       | $\vdash$ | $\vdash \vdash$ | _        |          | _             | -        | -        | $\sqcup$                |      | <u> </u>   | 134      | $\sqcup$        | $\vdash \vdash$ | $\Box$   |          | Щ               | $\sqcup$                            | 4        | _         | _        |
|          | 35       | ├—           | <del> </del> | _        | Н.             | Н               | <u> </u> | -        | +        | $\vdash$   |          |                 | 85       | <u> </u> | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$      | - -      | +        | $\vdash$                |      |            | 135      | $\vdash \vdash$ |                 | _        |          | Щ               |                                     | _        | $\dashv$  | _        |
|          | 36       | ├—           | <u> </u>     |          | Щ              | $\vdash \vdash$ | <u> </u> | <u> </u> | +        | $\vdash$   |          | <b>  </b>       | 86       | H        | Щ               | 4        | _        | _             | _        | -        | $\vdash$                |      |            | 136      | $\square$       | Н               | _        |          | $\sqcup$        |                                     |          | _         | _        |
|          | 37       | ├-           | <u> </u>     |          | Н              | Н               | <u> </u> | <u> </u> | +        |            |          | $\vdash \vdash$ | 87       | <b> </b> |                 | -        |          | +             | +        | +        | $\vdash$                |      |            | 137      |                 | Щ               |          |          | Щ               |                                     | _        | _         | 4        |
|          | 38       | <del> </del> | $\vdash$     |          | $\vdash$       | Н               | <u> </u> | L        | +-       | <b>⊢</b> - |          | <b>  </b>       | 88       |          |                 | _        | 4        | 4             | 4        | +        | $\vdash$                |      |            | 138      | $\vdash \vdash$ | $\Box$          |          |          | $\vdash \vdash$ | $\square$                           |          | _         | $\dashv$ |
|          | 39       | ├            | <u> </u>     |          | Н              | $\vdash \vdash$ | $\vdash$ | -        | +        | $\vdash$   |          | L               | 89       | <u> </u> | $\vdash \vdash$ | $\dashv$ | -        | +             | +        |          | $\vdash \vdash$         |      |            | 139      | $\vdash \vdash$ | $\vdash$        | _        |          | Ш               | $\sqcup$                            | _        | -         | 4        |
|          | 40       | ├-           | $\vdash$     | _        | Н              | $\vdash \vdash$ | <u> </u> | _        | $\vdash$ | $\vdash$   |          |                 | 90       | $\vdash$ | $\vdash \vdash$ | -        | -        | +             | +        | +        | $\vdash$                |      |            | 140      | $\sqcup$        | $\sqcup$        |          | Ш        | Ш               | $\sqcup$                            | _        | $\dashv$  |          |
|          | 41       | <u> </u>     | $\vdash$     | _        | Н              | Н               | <u> </u> | _        | +-       |            |          |                 | 91       | <u> </u> |                 |          | -+       | +             | +        | +        | $\dashv$                |      |            | 141      | -               | $\vdash \vdash$ |          | $\Box$   | Ш               | $\dashv$                            |          |           | 4        |
|          | 42       | <u> </u>     | $\vdash$     |          | $\vdash$       | Н               |          | $\vdash$ | +-       | ├          |          | <b>├</b> ─┤     | 92       | $\vdash$ | $\vdash$        |          | +        | +             | +        | +-       | ╁┤                      |      |            | 142      | $\vdash$        |                 |          | $\dashv$ | Ш               | $\Box$                              | -        | -         | $\dashv$ |
| 2        | 43       | =            | <b>-</b>     | -        | $\vdash$       | Н               | $\vdash$ | $\vdash$ | $\vdash$ | ⊢          |          |                 | 93       | <u> </u> | $\sqcup$        | -        | $\dashv$ | +             | -        | +-       | $\vdash$                |      |            | 143      | $\vdash$        |                 |          |          | Щ               | _                                   | 4        | -         | 4        |
|          | 44       | =            | Н            |          | $\vdash$       | $\vdash$        | $\vdash$ | ⊢        | +        | ⊢          |          | $\vdash$        | 94       | Н        | $\dashv$        |          | +        | +             | +        | +        | ╁┷┤                     |      |            | 144      | $\vdash$        |                 |          |          | $\dashv$        | $\dashv$                            | $\dashv$ | $\dashv$  | $\dashv$ |
| 3        | 45<br>46 | =            | Н            |          | Н              | $\vdash$        | -        | -        | +        |            |          |                 | 95<br>96 | Н        | $\vdash \vdash$ | -        | +        | +             | $\dashv$ | +-       | ┯                       |      |            | 145      |                 |                 | -        |          |                 |                                     | $\dashv$ | -         | $\dashv$ |
| 5        | 47       | =            |              |          | Н              |                 | -        | ├-       | +        | ├          |          |                 | 97       |          | $\dashv$        | +        | $\dashv$ | -             | +        | +        | $\vdash$                |      |            | 146      | $\dashv$        | $\dashv$        |          |          | _               |                                     | -        | $\dashv$  | $\dashv$ |
| 6        | 48       | =            | $\vdash$     |          | Н              | $\vdash$        |          | ├─       | ┼        | <u> </u>   |          |                 | 98       |          | $\dashv$        | $\dashv$ | -+       |               | +        | +        | Н                       |      |            | 147      | $\dashv$        | $\dashv$        |          | -        |                 |                                     | $\dashv$ | $\dashv$  | $\dashv$ |
| 7        | 48       | " "          |              | _        | $\vdash\vdash$ | $\vdash \vdash$ |          | $\vdash$ | $\vdash$ | $\vdash$   |          |                 | 99       | $\vdash$ | $\dashv$        | $\dashv$ | -+       |               | +        | +        | $\vdash$                |      |            | 148      | $\dashv$        | $\dashv$        |          | $\dashv$ | -               |                                     |          | $\dashv$  | $\dashv$ |
| 8        |          | 11           | -            | _        | $\vdash$       | $\vdash$        |          | -        | ╁        | -          |          |                 |          |          | $\vdash$        | $\dashv$ | -+       | +             | +        | +        | Н                       |      |            | 149      | $\dashv$        | $\dashv$        |          | $\dashv$ |                 | -                                   |          | -         | 긕        |
| ٥        | 50       | ∟≛ا          |              |          | Ш              | $oxed{oxed}$    |          | <u> </u> | لسل      | L          | :::::    |                 | 100      |          |                 |          | _ l      | - [           | - 1      | 1        |                         | :::: |            | 150      | 1               | - 1             | - 1      | l        | i               |                                     |          |           | - 1      |